

# REPORT ON BOILERS.

No. 54364.

Port of Newcastle

Received at London Office

**THUR. 27 FEB 1908**

Survey held at Gateshead

Date, first Survey Nov. 8<sup>th</sup>

Last Survey 18<sup>th</sup> Dec 1907

(Number of Visits 7)

54 on the S. S. "Sunmail"

Tons }  
Gross  
Net

Built at

By whom built

When built

Plates made at

By whom made

When made

Plates made at Gateshead

By whom made Clarke Chapman & Co 2764d

When made 1907

Registered Horse Power

Owners

Port belonging to

## LONGITUDINAL BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

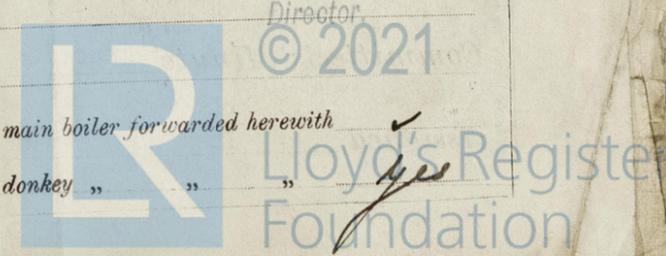
Total Heating Surface of Boilers \_\_\_\_\_ Is forced draft fitted \_\_\_\_\_ No. and Description of \_\_\_\_\_  
 Working Pressure \_\_\_\_\_ Tested by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_  
 Can each boiler be worked separately \_\_\_\_\_ Area of fire grate in each boiler \_\_\_\_\_ No. and Description of \_\_\_\_\_  
 Area of each valve \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_  
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler \_\_\_\_\_  
 Mean dia. of boilers \_\_\_\_\_ Length \_\_\_\_\_  
 Are the shell plates welded or flanged \_\_\_\_\_  
 Diameter of rivet holes in long. seams \_\_\_\_\_ Pitch of rivets \_\_\_\_\_  
 Working pressure of shell by \_\_\_\_\_  
 No. and Description of Furnaces in each \_\_\_\_\_  
 Material \_\_\_\_\_ Outside diameter \_\_\_\_\_ Length of plain part \_\_\_\_\_ Thickness of plates \_\_\_\_\_  
 Working pressure of furnace by the rules \_\_\_\_\_ Combustion chamber \_\_\_\_\_  
 Material \_\_\_\_\_ Thickness: Sides \_\_\_\_\_ Back \_\_\_\_\_ Top \_\_\_\_\_ Bottom \_\_\_\_\_ Pitch of stays to ditto: Sides \_\_\_\_\_ Back \_\_\_\_\_  
 Working pressure by rules \_\_\_\_\_ Material of stays \_\_\_\_\_ Diameter at \_\_\_\_\_  
 End plates in steam space: Material \_\_\_\_\_ Thickness \_\_\_\_\_  
 Material of stays \_\_\_\_\_ Diameter at smallest part \_\_\_\_\_  
 Material of Front plates at bottom \_\_\_\_\_ Thickness \_\_\_\_\_ Material of \_\_\_\_\_  
 Working pressure of plate by rules \_\_\_\_\_ Diameter of tubes \_\_\_\_\_  
 Material of tube plates \_\_\_\_\_ Thickness: Front \_\_\_\_\_ Back \_\_\_\_\_ Mean pitch of stays \_\_\_\_\_ Pitch across wide \_\_\_\_\_  
 Girders to Chamber tops: Material \_\_\_\_\_ Depth and thickness of \_\_\_\_\_  
 Number and pitch of Stays in each \_\_\_\_\_  
 Superheater or Steam chest; how connected to boiler \_\_\_\_\_ Can the superheater be shut off and the boiler worked \_\_\_\_\_  
 Description of longitudinal joint \_\_\_\_\_ Diam. of rivet \_\_\_\_\_  
 Material of flue plates \_\_\_\_\_ Thickness \_\_\_\_\_  
 End plates: Thickness \_\_\_\_\_ How stayed \_\_\_\_\_  
 Area of safety valves to superheater \_\_\_\_\_ Are they fitted with easing gear \_\_\_\_\_

## VERTICAL DONKEY BOILER—No. 1 Description Cross-tube Manufacturers of steel J. Spence & Sons

Made at Gateshead By whom made Clarke Chapman & Co When made 1907 Where fixed Stonefield Working pressure 80 lbs  
 Tested by hydraulic pressure to 160 lbs Date of test 18/12/07 No. of Certificate 7647 Fire grate area 17.72 Description of safety valves Spring-loaded  
 Area of each 9.62 Pressure to which they are adjusted 80 lbs If steam from main boilers can enter the donkey boiler no.  
 Dia. of donkey boiler 5'-6" Length 12'-0" Material of shell plates Steel Thickness 13/32 Range of tensile strength 28-32  
 Descrip. of riveting long. seams S. Lap Dia. of rivet holes 13/16 Whether punched or drilled dilled Pitch of rivets 3"  
 Thickness of shell crown plates 9/16 Working pressure of shell by rules 99 lbs Thickness of shell crown plates 9/16  
 Diameter of furnace Top 4'-2 1/2" Bottom 4'-8" Length of furnace 4'-9"  
 Working pressure of furnace by rules 105 lbs Thickness of furnace crown plates 9/16  
 Diameter of uptake 14" Thickness of uptake plates 3/8"  
 The foregoing is a correct description,  
 Manufacturer.

During progress of work in shops - - - 1907. Nov. 8, 12, 18, 26 Dec. 2, 4, 5, 10, 17, 18  
 During erection on board vessel - - - 1908: Feb. 28 Mar. 2, 6, 10, 18 Apr. 23, 24.  
 Total No. of visits 10  
 Filling onboard - - - 7

Is the approved plan of main boiler forwarded herewith \_\_\_\_\_  
 " " " donkey " " " \_\_\_\_\_



**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)

This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good

*with this certificate by J. MacKillop*

9603

*5610 ... 47 ... 14561 ...*

Certificate (if required) to be sent to the Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for.
Special ...	£	:	:	19
Donkey Boiler Fee ...	£	2	2	When received.
Travelling Expenses (if any) £	:	:	:	19

*J. G. MacKillop*  
*Thomas Field*

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE 5 MAY 1908

Assigned

*see minute on*

*By Rpt 4974*



© 2021

Lloyd's Register Foundation